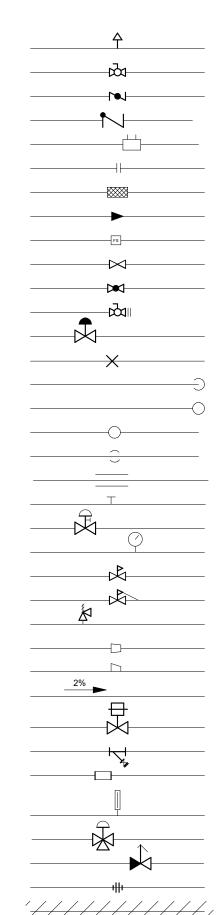
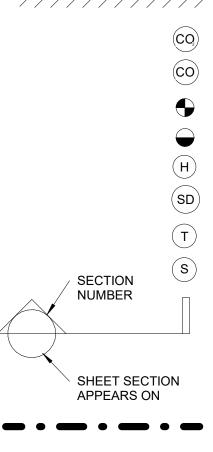
HVAC DRAWINGS FOR: LINCOLN EQUITIES BUILDING B SOUTHEAST, NY SPECIFICATIONS: SECTION 1 - HVAC CRITERIA





THERMOSTAT

SECTION CUT

MATCH LINE

THERMOSTATIC SENSOR

A	UTOMATIC AIR VENT
_	ALL VALVE
	UTTERFLY VALVE
-	HECK VALVE
C	RCUIT SETTER
	LANGE BREAK
	LEX CONNECTOR
	LOW DIRECTION
	LOW SWITCH
	GATE VALVE
	IOSE END VALVE
	10TORIZED VALVE
	IPE ANCHOR
	IPE DOWN
	IPE UP
	'IPE "T" UP
	IPE "T" DOWN
	IPE GUIDE
	ETE'S PLUG
	NEUMATIC VALVE
-	RESSURE GAUGE
	RESSURE REDUCING VALVE
	RESSURE REDUCING VALVE w/ SENSING PO
•	RESSURE SAFETY VALVE
	EDUCER (CONCENTRIC)
	EDUCER (ECCENTRIC)
S	LOPED PIPE
S	OLENOID VALVE
S	TRAINER
S	UCTION DIFFUSER
Т	HERMOMETER
Т	HREE WAY VALVE
Т	RIPLE DUTY VALVE
U	INION
D	EMO PIPE OR EQUIPMENT
C	ARBON DIOXIDE DETECTOR
С	ARBON MONOXIDE SENSOR
С	ONNECT NEW TO EXISTING
Р	EMOLITION EXTENTS
	-
S	MOKE DETECTOR

	SUFFET AIL OF
	RETURN AIR DOWN
	RETURN AIR UP
	EXHAUST AIR / OU
	EXHAUST AIR / OU
	RECTANGULAR VA
	RECTANGULAR RA
	ROUND ELBOW
	SQUARE TO SQUA
	ROUND TO ROUND
	90° CONICAL TAP
	VOLUME DAMPER
	BACKDRAFT DAMP
	MOTORIZED DAMP
10x8	RECTANGULAR DU
8Ø	ROUND DUCTWOR
10/8	OVAL DUCTWORK
	RECT. TO ROUND 1
Ļ	LINED ACOUSTICAL
	WRAPPED DUCT D FOR FREE NET ARE
R	

SYMBOLS

SUPPLY AIR DOWN

FOR FREE NET AREA

DIRECTION OF AIRFLOW

WRAPPED DUCT DIMENSIONS

DUCT RISE (R) OR DROP (D) IN

SUPPLY AIR UP	+++++++
RETURN AIR DOWN	# SHEE
RETURN AIR UP	EQUI
EXHAUST AIR / OUTSIDE AIR UP	CFM
EXHAUST AIR / OUTSIDE AIR DN	U -
RECTANGULAR VANED ELBOW	 ↓
RECTANGULAR RADIUS ELBOW	
ROUND ELBOW	
SQUARE TO SQUARE 45° TAP	
ROUND TO ROUND 45° TAP	PIPING
90° CONICAL TAP	CWS
VOLUME DAMPER	CA
BACKDRAFT DAMPER	CS
MOTORIZED DAMPER	FO
RECTANGULAR DUCTWORK	G
ROUND DUCTWORK	HWR
OVAL DUCTWORK	HG
RECT. TO ROUND TRANSITION	LPS
LINED ACOUSTICAL DUCT	LPC
	MPS

#

SHEET

EQUIP

#

ТҮРЕ

— U – 🕨

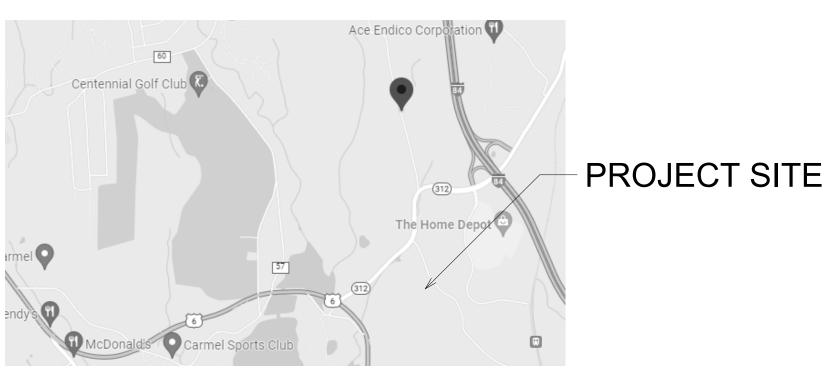
----RS--

-MPC-

-HPS-

--HPC-





			PROJEC	T DES	GIGN CONE	DITIONS				
	LOCATION		ZONE	SUMMER 1% (F DB / F WB)		WINTER 99% (F DB)		SEISMIC		WIND
OUTDOOR DESIGN CONDITIONS	LOCA		ZONE	SOWWER 1% (F DB / F WB)		WINTER 99% (FDB)		DESIGN CAT	SITE CLASS	(MPH)
001121110110	SOUTHE	AST, NY	5A	ç	90.2 / 72.9	9.5		В	D	115
ENVELOPE CONDITIONS	AREA	LOW WALL R-VALUE	UPPER WALL R-VALUE	1	ROOF R-VALUE	GLASS U-VALU		GLASS SC		TITION ALUE
	WAREHOUSE	1.5	14 (SEE NOTE 1)		20	0.35		N/A	1	I/A
	2020 NY STATE BUILDING CODE									
APPLICABLE CODES	2020 NY STATE MECHANICAL CODE									
	2020 NY STATE ENERGY CONSERVATION CODE									
			LO	AD AS	SUMPTIO	NS				
		COOLING	HEATING		PEOPLE		LIGHTING	MISC	OUTDO	OOR AIR
ROOM DESIGN PARAMETERS	SPACE TYPE	F / MAX RH	F / MIN RH	SQFT / PERSON	SENS. GAIN / PERSON (BTUH)	LATENT GAIN / PERSON (BTUH)	W / SQFT	W / SQFT	CFM / PERSON	CFM / SQFT
-	WAREHOUSE	N/A	55	N/A	N/A	N/A	N/A	N/A	5	0.06
NOTES:										

AB	B	RE	VI	A ⁻	ΓΙΟ	DN	S

	SPIN-IN FITTING WITH DAMPER (SIDE OF DUCT)
++	ROUND FLEXIBLE DUCT
	DETAIL REFERENCE TAG
	EQUIPMENT TAG
	DIFFUSER TAG
	UNDERCUT DOOR
	UNIT HEATER
	CABINET UNIT HEATER
	EXHAUST FAN
_	FIRE DAMPER
_	SMOKE DAMPER
_	FIRE / SMOKE DAMPER
I INI	

ING LINE TYPES

 CHILLED WATER SUPPLY
 CHILLED WATER RETURN
 COMPRESSED AIR
 CONDENSATE DRAIN PIPING
 CONDENSER WATER SUPPLY
 CONDENSER WATER RETURN
 FUEL OIL
 GAS PIPING
 HEATING WATER SUPPLY
 HEATING WATER RETURN
 REFRIGERANT HOT GAS
 LOW PRESSURE STEAM
 LOW PRESSURE CONDENSATE
 MEDIUM PRESSURE STEAM
 MEDIUM PRESSURE CONDENSATE
 HIGH PRESSURE STEAM
 HIGH PRESSURE CONDENSATE
 REFRIGERANT LIQUID
 REFRIGERANT SUCTION

* NOTE: NOT ALL PIPING LINE TYPES, SYMBOLS, OR ABBREVIATIONS ARE UTILIZED ON EVERY PROJECT.

SITE LOCATION MAP

ACC AIR COOLED CONDENSER ACH AIR CHANGES PER HOUR AFF ABOVE FINISHED FLOOR AHJ AUTHORITY HAVING JURISDICTION AHU AIR HANDLING UNIT ALUMINUM AMP AMPERE AP ACCESS PANEL APD AIR PRESSURE DROP ARU AIR ROTATION UNIT AIR SEPERATOR ATR ALL THREAD ROD MANUAL AIR VENT BOILER BUILDING AUTOMATION SYSTEM BASEBOARD HEATER BYPASS DAMPER BDD BACK DRAFT DAMPER **BELOW FINISHED FLOOR** BHP BRAKE HORSEPOWER BMS BUILDING MANAGEMENT SYSTEM BOD BOTTOM OF DUCT BOE BOTTOM OF EQUIPMENT BOLBOTTOM OF LOUVERBOPBOTTOM OF PIPE BOS BOTTOM OF STEEL BP BYPASS BTUH BTU PER HOUR BWE BAKED WHITE ENAMEL CAP. CAPACITY CEF CEILING EXHAUST FAN CFH CUBIC FEET PER HOUR CFM CUBIC FEET PER MINUTE CH CHILLER CHWP CHILLED WATER PUMP CLG CEILING CONN. CONNECTION CRAC COMPUTER ROOM AIR CONDITIONING UNIT CRU CONDENSATE RETURN UNIT COOLING TOWER CONDENSING UNIT CUH CABINET UNIT HEATER CWP CONDENSER WATER PUMP DB DRY BULB, (°F) DDC DIRECT DIGITAL CONTROL DDHU DESICANT DEHUMIDIFICATION UNIT DISC DISCONNECT DOWN DOAS DEDICATED OUTSIDE AIR SUPPLY UNIT DP DEW POINT DIRECT EXPANSION EXHAUST AIR ENTERING AIR TEMPERATURE, (°F) (DB/WB) EBBH ELECTRIC BASEBOARD HEATER ELECTRICAL WORK CONTRACTOR EXHAUST FAN ECM ELECTRONICALLY COMPUTATED MOTOR EMS ENERGY MANAGEMENT SYSTEM ENT ENTERING EQPT EQUIPMENT ERU ENERGY RECOVERY UNIT ESP EXTERNAL STATIC PRESSURE EXPANSION TANK EUH ELECTRIC UNIT HEATER EVAP EVAPORATOR (REFRIGERATION) EWH ELECTRIC WALL HEATER EWT ENTERING WATER TEMPERATURE (°F) EXF EXFILTRATION AIR EXH EXHAUST FIRE ALARM

AAV AUTOMATIC AIR VENT

AIR CURTAIN

AC

AS

AV

BAS

BB

BD

CT

DN

FA

EAT

EC

FA

FD

FIN

FV

GAL

FCU FAN COIL UNIT FIRE DAMPER FINISHED FLOOR FINISH FLA FULL LOAD AMPS FPC FIRE PROTECTION CONTRACTOR FPM FEET PER MINUTE FSD FIRE / SMOKE DAMPER FT. HD FEET OF HEAD (PRESSURE DROP) FTU FAN TERMINAL UNIT FIELD VERIFY GALLONS GENERAL WORK CONTRACTOR

GPM WATER FLOW, (GALLONS PER MINUTE) GPR GAS PRESSURE REGULATOR GUH GAS UNIT HEATER GWH GAS WATER HEATER

HUMIDITY SENSOR н HEV HOSE END VALVE HP HORSEPOWER HVLS HIGH VOLUME LOW SPEED HWP HOT WATER PUMP HX HEAT EXCHANGER HERTZ H7 INSIDE DIAMETER INTAKE HOOD IN W.C. INCHES OF WATER COLUMN IOM INSTALLATION AND OPERATION MANUAL KW KILOWATT LOUVER LAT LEAVING AIR TEMPERATURE, (°F) LBS POUNDS LLSV LIQUID LINE SOLENOID VALVE LP LIQUID PETROLEUM GAS LVG LEAVING LWT LEAVING WATER TEMPERATURE (°F) MA MIXED AIR (OA + RA) MAU MAKE-UP AIR UNIT MAX MAXIMUM MBH 1.000 BTU PER HOUR MC MECHANICAL WORK CONTRACTOR MCA MINIMUM CIRCUIT AMPERES MCC MOTOR CONTROL CENTER MD MOTORIZED DAMPER MIN MINIMUM MOCP MAXIMUM OVER CURRENT PROTECTION MUW MAKE-UP WATER MVD MANUAL VOLUME DAMPER NC NORMALLY CLOSED NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOC. NIC NOT IN CONTRACT NO NORMALLY OPEN NO NUMBER NPPW NON POTABLE PROCESS WATER NTS NOT TO SCALE OA OUTSIDE AIR OUTSIDE DIAMETER OD PUMP PC PLUMBING WORK CONTRACTOR PCF POUNDS/CUBIC FOOT (DENSITY) PH PHASE (ELECTRICAL) POS. POSITION PPH POUNDS PER HOUR PRV PRESSURE REDUCING VALVE PSF POUNDS/SQUARE FOOT (PRESSURE) PSI POUNDS/SQUARE INCH (ABSOLUTE PRESSURE) PSIG POUNDS/SQUARE INCH (GAUGE PRESSURE) PTAC PACKAGE TERMINAL AIR CONDITIONER QTY QUANTITY RETURN AIR REFRIGERATION CONTRACTOR RETURN FAN RF RELATIVE HUMIDITY RH RLF RELIEF AIR RLH RELIEF HOOD RPM REVOLUTIONS PER MINUTE RTU ROOF TOP UNIT (PACKAGED) SUPPLY AIR SHADING COEFFICIENT SMOKE DAMPER SEF SMOKE EXHAUST FAN SEN SENSIBLE COOLING CAPACITY, (BTU/ HR) SUPPLY FAN SF SFT SOFT WATER STAINLESS STEEL SS STORAGE TANK STD STANDARD STL STEEL TRANSFER AIR

TAB TEST AND BALANCE CONTRACTOR TCC TEMPERATURE CONTROL CONTRACTOR TDV TRIPLE DUTY VALVE TEMP TEMPORARY TOT TOTAL NET CAPACITY, (BTU/HR)

TSP TOTAL STATIC PRESSURE TXV THERMAL EXPANSION VALVE TYP TYPICAL UH UNIT HEATER

UON UNLESS OTHERWISE NOTED UTR UP THOUGH ROOF V VOLT

VAV VARIABLE AIR VOLUME TERMINAL UNIT VF VENTILATION FAN VFD VARIABLE FREQUENCY DRIVE VSD VARIABLE SPEED DRIVE

VTA VENT TO ATMOSPHERE VTR VENT TO ROOM WATT

WITH WB WET BULB, (°F) WG WATER GAUGE

WP WEATHERPROOF WPD WATER PRESSURE DROP

	The Home Depot	
57 6 312		
Sports Club		

	HVAC SHEET LIST						
SHEET NUMBER	SHEET NAME	CURRENT REVISION	CURRENT REVISION DESCRIPTION				
M000	COVER SHEET	08/05/2022	BID SET				
M100	OVERALL FLOOR PLAN	08/05/2022	BID SET				
M101	OVERALL ROOF PLAN	08/05/2022	BID SET				
M400	SCHEDULES	08/05/2022	BID SET				
M500	DETAILS	08/05/2022	BID SET				

- THESE DOCUMENTS ARE INTENDED TO PROVIDE ALL DRAWINGS, NOTATIONS, DETAILS, AND SCHEDULES NECESSARY FOR THE INSTALLATION OF A COMPLETE HVAC SYSTEM. THESE DOCUMENTS ARE PREPARED TO EXCLUDE ALL WORK NOT SPECIFICALLY INCLUDED IN THE SET. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY LABOR AND MATERIALS FOR A COMPLETE SYSTEM TO MEET THE INTENT OF
- THE DESIGN AND AS INDICATED IN THE DESIGN DOCUMENTS. ANY ACCESSORIES OR MATERIALS OBVIOUSLY A PART OF THE SYSTEM AND INTEGRAL IN ITS OPERATION, ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN, SHALL BE FURNISHED AND INSTALLED AS IF CALLED FOR IN DETAIL
- THIS CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING COMPLETE AND OPERATING SYSTEMS. THIS CONTRACTOR ACKNOWLEDGES AND UNDERSTANDS THAT THE CONTRACT DOCUMENTS ARE A TWO-DIMENSIONAL REPRESENTATION OF A THREE-DIMENSIONAL OBJECT, SUBJECT TO HUMAN INTERPRETATION. THIS REPRESENTATION MAY INCLUDE IMPERFECT DATA. INTERPRETED CODES, UTILITY GUIDELINES, THREE-DIMENSIONAL CONFLICTS, AND REQUIRED FIELD COORDINATION ITEMS. SUCH DEFICIENCIES CAN BE CORRECTED WHEN IDENTIFIED PRIOR TO ORDERING MATERIAL AND STARTING INSTALLATION. THIS CONTRACTOR AGREES TO CAREFULLY STUDY AND COMPARE THE INDIVIDUAL CONTRACT DOCUMENTS AND REPORT AT ONCE IN WRITING TO THE DESIGN TEAM ANY DEFICIENCIES THIS CONTRACTOR MAY DISCOVER. THIS CONTRACTOR FURTHER AGREES TO REQUIRE EACH SUBCONTRACTOR TO LIKEWISE STUDY THE DOCUMENTS AND REPORT AT ONCE ANY DEFICIENCIES DISCOVERED.
- ALL MATERIAL AND EQUIPMENT USED SHALL BE NEW AND FREE FROM DEFECTS.
- PROVIDE MECHANICAL SYSTEMS IDENTIFICATION TO INDICATE THE TAG, TYPE, FLOW, TEMPERATURE RANGE, CAPACITY, ETC.OF EACH ITEM OF EQUIPMENT AND ALL CONVEYANCES (DUCTWORK AND PIPING SYSTEMS). ALL MAJOR EQUIPMENT SHALL BE PROVIDED WITH LAMINATED PLASTIC NAME PLATES IDENTIFYING THE EQUIPMENT WITH NOMENCLATURE CORRESPONDING TO THE MARKINGS ON THE DRAWINGS. LETTERING SHALL BE 1/2" HIGH. PROVIDE ADHESIVE BACKED PLASTICIZED MARKERS FOR DUCTWORK. PIPING IDENTIFICATION TO FOLLOW ASME 13 STANDARDS. LOCATE LABELINGS TO BE ABLE TO EASILY IDENTIFY PIPING SERVICE. PROVIDE ENGRAVED BRASS OR LAMINATED PLASTIC VALVE TAGES WITH STAINLESS STEEL BALL CHAIN FASTENER. PROVIDE VALVE TAG SCHEDULE WITH CLOSEOUT DOCUMENTS.
- THIS CONTRACTOR SHALL PERFORM WORK IN A SAFE MANNER. COMPLY WITH ALL APPLICABLE OSHA SAFETY GUIDELINES IN ACCORDANCE WITH 29 CFR 1926 OSHA CONSTRUCTION INDUSTRY REGULATIONS DURING THE COURSE OF COMPLETING THE WORK DESCRIBED IN THESE DOCUMENTS.
- THIS CONTRACTOR SHALL KEEP AND MAINTAIN ON SITE A COPY OF ALL SAFETY DATA SHEETS FOR ALL PRODUCTS AND MATERIALS ON SITE WHICH COMPLY WITH THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELING OF CHEMICALS. THIS INCLUDES:
- MAINTAINING A HAZARD COMMUNICATION PROGRAM DETAILING THE PLANS IN PLACE FOR THE SAFE HANDLING OF CHEMICALS
- MAINTAINING A WRITTEN CHEMICAL INVENTORY OF EVERY HAZARD CHEMICAL IN THE FACILITY TO WHICH EMPLOYEES ARE EXPOSED MAINTAINING PROPER LABELS AND WARNING SIGNS ASSOCIATED WITH SAID CHEMICALS
- TRAINING EMPLOYEES ON CHEMICAL HAZARDS AND NECESSARY PRECAUTIONS
- NO CHEMICALS MAY BE STORED IN ANY CONTAINERS OTHER THAN THE ORIGINAL MANUFACTURER'S CONTAINERS.
- INSTALL ALL ITEMS PER THE MANUFACTURER'S INSTRUCTIONS AND PROVIDE PROPER ELECTRICAL AND MAINTENANCE CLEARANCES

1.1 COORDINATION

- COORDINATE THE ROUTING OF ALL MECHANICAL SYSTEMS WITH THE OTHER TRADES TO AVOID CONFLICTS WITH DUCTS, PIPES, ETC. ITEMS REQUIRING PITCH MUST BE CONSIDERED FOR THEIR RIGHT-OF-WAY.
- GENERAL CONTRACTOR (G.C.) SHALL PROVIDE AND INSTALL ALL PRIMARY STRUCTURAL SUPPORT, UNIFORM LEVEL, FOR ALL FLOOR, CEILING, OR ROOF MOUNTED EQUIPMENT OR COMPONENTS AS DESIGNED BY ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE JURISDICTION OF AUTHORITY.
- THIS CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES. ANY DISCREPANCIES SHALL BE RELAYED TO NDBS FOR COMMENT AND CORRECTIVE ACTION AS NEEDED.
- ALL LINTELS, FRAMING, FURRING, PATCHING, AND PAINTING REQUIRED WILL BE PROVIDED BY THE G.C
- ALL GAS PIPING EXPOSED TO WEATHER SHALL BE PAINTED BY THE G.C.
- THE G.C. SHALL PROVIDE ALL PADS AS REQUIRED FOR THE INSTALLATION OF THE HVAC EQUIPMENT. PADS SHALL BE PROVIDED IN ACCORDANCE WITH THE STRUCTURAL ENGINEER'S DESIGN FOR SITE CONDITIONS, WEIGHT, SEISMIC AND WIND CONSIDERATIONS. HEIGHT OF THE PAD SHALL (FOR GRAVITY DRAIN EQUIPMENT) SHALL BE FIELD ADJUSTED BY G.C. BASED ON APPROVED EQUIPMENT SUBMITTALS.
- E.C. SHALL MOUNT AND WIRE/CONNECT ALL 460 VOLT AND 120 VOLT COMPONENTS (RELAYS, FAN WIRING, HIGH LIMITS, SOLENOIDS CONTROLLERS, ETC...) AND OTHER ELECTRICAL COMPONENTS FURNISHED BY THIS CONTRACTOR. THIS CONTRACTOR IS RESPONSIBLE FOR ALL 24 VOLT THERMOSTAT WIRING.
- EQUIPMENT IS NOT INTENDED FOR TEMPORARY CONDITIONING UNLESS COORDINATED WITH NDBS AHEAD OF TIME. SHOULD NDBS APPROVE OF TEMPORARY USE, RETURN AIR OPENINGS SHALL BE PROTECTED WITH FILTER MEDIA (MINIMUM MERV 8) WHILE EQUIPMENT IS OPERATED DURING CONSTRUCTION.

1.2 CONSTRUCTION

- ALL EQUIPMENT, PIPING SUPPORTS, AND DUCTWORK SUPPORTS SUSPENDED FROM ROOF JOISTS SHALL BE SUSPENDED FROM THE TOP CHORD OF THE JOIST UNLESS PRIOR APPROVAL FROM G.C. OR STRUCTURAL ENGINEER.
- PROVIDE DUCT, PIPING AND HANGER PENETRATIONS THROUGH NON-RATED ENCLOSURES WITH DRAFT STOPPING OR SMOKE BARRIER SEALANT SYSTEMS. INSTALL PENETRATION SEALANT SYSTEMS IN STRICT ACCORDANCE TO MANUFACTURER'S APPLICATION DETAILS AND INSTRUCTIONS. PROVIDE DRAFT STOPPING OR SMOKE BARRIER SEALANTS TO MEET APPROVAL OF AHJ.
- LOCATE AND PROVIDE SCHEDULE 40 STEEL SLEEVES AT ALL CONCRETE PENETRATIONS THROUGH WALLS AND FLOORS PRIOR TO CONCRETE BEING POURED. THIS SUBCONTRACTOR WILL BE RESPONSIBLE TO CORE DRILL ANY HOLE THAT IS NOT LOCATED PRIOR TO CONCRETE POURING, IN WHICH CASE A SLEEVE IS NOT REQUIRED. CORE DRILL HOLE OR SLEEVE SHALL PROVIDE MINIMUM 1" CLEARANCE AROUND ENTIRE CIRCUMFERENCE OF PIPE. CAULK ANNULAR SPACE WATERTIGHT. PROVIDE A LINK SEAL THROUGH ALL PENETRATIONS LOCATED BELOW GRADE.
- PROTECT ALL EQUIPMENT, PIPING AND DUCTWORK OPENINGS DURING CONSTRUCTION WITH PLASTIC OR OTHER NON-POROUS MATERIAL TO LIMIT CONTAMINATION FROM DUST AND OTHER CONSTRUCTION DEBRIS. MATERIAL AND EQUIPMENT SHALL BE ELEVATED OFF FLOOR AND PROTECTED WHEN STORED ON SITE.

1.3 ACTION SUBMITTALS

- PRODUCT DATA: FOR ALL EQUIPMENT FURNISHED BY THIS CONTRACTOR
- (1) SHOP DRAWINGS INCLUDING AT A MINIMUM: CAPACITIES, DIMENSIONS, WEIGHTS, ELECTRICAL REQUIREMENTS, FAN AND PUMP CURVES
- METAL DUCTS LINERS AND ADHESIVES
- SEALANTS AND GASKETS 3.
- PIPING PIPING SPECIALTIES VALVES
- PRESSURE REGULATORS (4) PIPING SPECIALTIES ITEMS\
- 1.4 INFORMATIONAL SUBMITTALS
 - BRAZING AND WELDING CERTIFICATES
 - FIELD QUALITY-CONTROL REPORTS

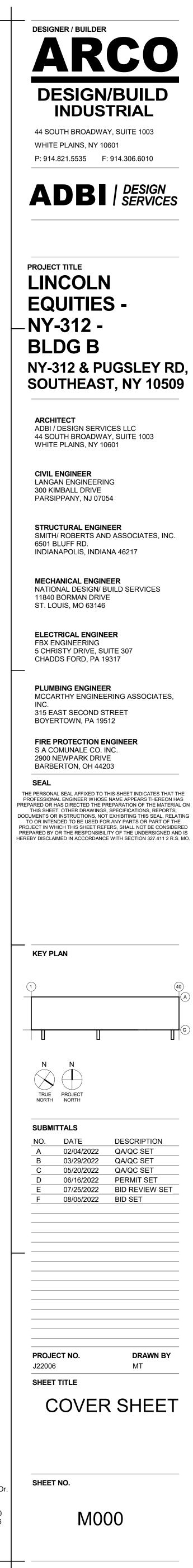
SECTION 2 - FIELD QUALITY CONTROL GENERAL

- REFER TO PIPE SCHEDULE FOR PIPE TESTING REQUIREMENTS.
- EQUIPMENT THAT IS NOT INTENDED TO BE SUBJECT TO THE TEST PRESSURE SHALL BE ISOLATED FROM THE PIPING. IF A VALVE IS USED TO Β. ISOLATE THE EQUIPMENT, ITS CLOSURE SHALL BE CAPABLE OF SEALING AGAINST THE TEST PRESSURE WITHOUT DAMAGE TO THE VALVE. FLANGED JOINTS AT WHICH BLINDS ARE INSERTED TO ISOLATE EQUIPMENT NEED NOT BE TESTED.
- PIPE PRESSURE TEST REPORTS ARE REQUIRED AS PART OF THE PROJECT CLOSE OUT DOCUMENTS AND ARE TO INCLUDE WITNESS SIGNATURES. A WRITTEN FIELD PRESSURE TEST DECLARATION SHALL BE PREPARED DOCUMENTING THE FIELD TEST PROCEDURE AS REQUIRED BY APPLICABLE CODE AND PROVIDE TO NDBS AND THE BUILDING INSPECTOR PRIOR TO FINAL APPROVAL.
- DURING PRESSURE TESTING, VERIFY THAT STRESS DUE TO PRESSURE AT BOTTOM OF VERTICAL RISERS DOES NOT EXCEED 90% OF SPECIFIED MINIMUM YIELD STRENGTH OR 1.7 TIMES "SE" VALUE AS LISTED IN ASME B31.9.

SECTION 3 – EQUIPMENT TESTING AND START-UP GENERAL

- PRIOR TO START-UP PROCEDURES, SUBMITTAL DOCUMENTATION SHALL BE VERIFIED FOR COMPLETENESS AND CORRECTNESS AS IT APPLIES TO ALL INSTALLED EQUIPMENT BASED ON THE CURRENT CONTRACT DOCUMENTS.
- SUBMITTALS SHALL BE COMPARED TO ALL INSTALLED EQUIPMENT AND VERIFICATION MADE THAT EACH DOCUMENT MATCHES THE FINAL B. INSTALLATION. THE FOLLOWING ITEMS SHALL BE SPECIFICALLY VERIFIED:
 - 1. TAGGING OF EQUIPMENT AND MODEL NUMBER IS CONSISTENT WITH DOCUMENTS, SUBMITTALS AND NAMEPLATE DATA.
 - PHYSICAL DIMENSIONS COINCIDE WITH INSTALLATION INCLUDING SERVICE CLEARANCES.
- SHIPPED LOOSE ACCESSORIES ARE PROPERLY INSTALLED.
- C. THIS CONTRACTOR SHALL FILL OUT ALL MANUFACTURER START-UP SHEETS AS A CLOSE OUT DOCUMENT





11840 Borman Dr. St. Louis, MO 63146